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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION N	
10/038,131	01/03/2002	Bogdan Szafraniec	P01,0382	7416
128	7590 09/15/200	3		
	LL INTERNATION	EXAMINER TURNER, SAMUEL A		
101 COLUM P O BOX 224	15			
MORRISTO	WN, NJ 07962-2245		ART UNIT	PAPER NUMBER
			2877	
			DATE MAILED: 09/15/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	T				
Office Action Summary	10/038,131	SZAFRANIEC ET	AL.				
Office Action Summary	Examiner	Art Unit					
The MAN INC DATE of the	Samuel A. Turner	2877					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute. - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, within the statutory minimun vill apply and will expire SIX (o cause the application to bec	may a reply be timely filed n of thirty (30) days will be considered time 6) MONTHS from the mailing date of this o ome ABANDONED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on	·						
2a)☐ This action is FINAL . 2b)⊠ Th	is action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4) Claim(s) 1-23 is/are pending in the application	ı .						
4a) Of the above claim(s) is/are withdraw	vn from consideratio	n.					
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-23</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requiremer	nt.					
Application Papers							
9) The specification is objected to by the Examine		_					
10) \square The drawing(s) filed on <u>03 January 2002</u> is/are: a) \square accepted or b) \square objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in rep	•						
12) The oath or declaration is objected to by the Ex	ammer.						
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign	i priority under 35 U.	S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domesti							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Not	erview Summary (PTO-413) Paper No ice of Informal Patent Application (PT er:					

DETAILED ACTION

Drawings

The drawings are objected to because figure 3 must be labeled as prior art. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

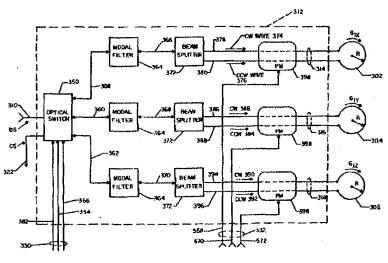
A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 8-19, and 23 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Page(5,157,461).

Page teaches a fiber optical gyroscope comprising a multi-turn fiber ring of single mode fiber that is 1 km in length, and a depolarizer (454) at each end of the fiber ring. See figure 28B. The depolarizers (454) are Loyt depolarizers which includes two sections of birefringent single mode fiber (PM fiber) spliced at 45 degrees. The depolarizers are coupled an integrated optical coupler (IOC) (312) which includes a modal filter (364) which is a polarizer. See figures 13 and 28A.

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F16. 13

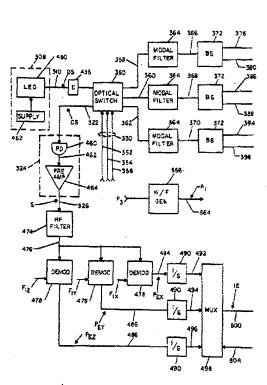


FIG. 28A

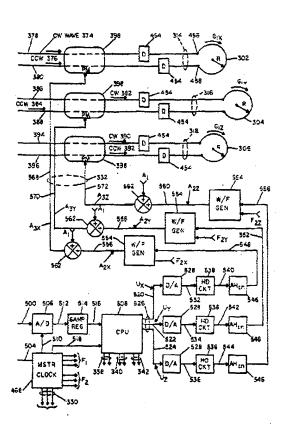


FIG. 288

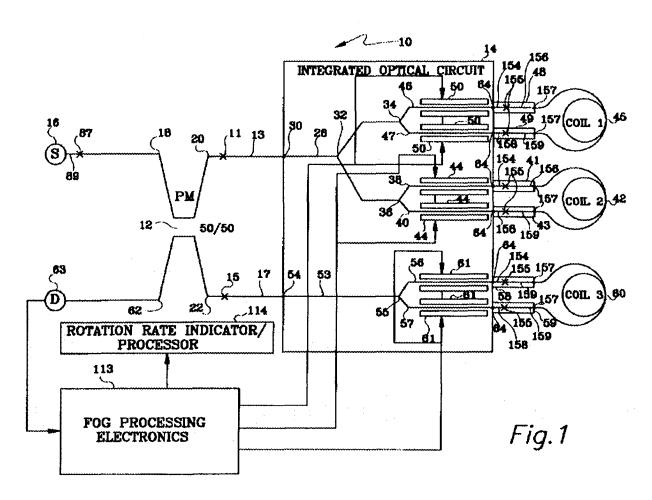
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Claims 1, 3, 4, 11, 13-17, 19, 20, and 23 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Liu et al(5,854,678).

Liu et al teach a fiber optical gyroscope comprising a coil of single mode fiber(42), and first and second depolarizers(41,43) one at each end of the fiber coil. The depolarizers are attaches to an integrated optical circuit(14) which includes a Y coupler and a polarizing waveguide(28). See figure 1.



Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 5-7, 21, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Page(5,157,461).

A specific length for the depolarizers in Page is not given.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to make the depolarizers of any length as to reduce the signal fading at the detector.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel A. Turner those telephone number is **(703) 308-4803**. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font, can be reached on (703) 308-4881.

The fax phone number for this Group is (703) 308-7722. The faxing of papers related to this application must conform with the notice published in the Official Gazette, 1096 O.G. 30 (15 November 1989). The Group receptionist telephone number is (703) 308-0956.

Any inquiry of a technical nature regarding reissues, petitions, and terminal disclaimers should be directed to Hien Phan whose telephone number is (703) 308-7502, or Ed Westin whose telephone number is (703) 308-4823.

Any other inquiry of a technical nature, and all inquiries of a general nature including those relating to the status of this application or any patent term adjustment should be directed to TC2800 Customer Service Office whose telephone number is (703) 306-3329.

Samuel A. Turner Primary Examiner

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SAT 9/5/03